



ATTORNEY DOCKET NO.  
21-P011C1D3

1754  
John  
PATENT  
Serial No. 10/038,204 P(A)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application: Colbert, et al.  
Serial No.: 10/038,204  
Filed: December 21, 2001  
Confirmation No: 1758  
Art Unit: 1754  
Examiner: Peter J. Lish  
For: METHOD FOR FORMING AN ARRAY OF SINGLE-WALL CARBON NANOTUBES  
AND COMPOSITIONS THEREOF

Mail Stop: Petitions  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**PETITION UNDER 37 C.F.R. § 1.48 TO CORRECT THE INVENTORSHIP**

Dear Sir:

This petition under 37 C.F.R. § 1.48 is to correct the inventorship of this application. Applicant respectfully petitions the inventors be corrected to reflect the correct inventorship of this invention to the following:

12/03/2004 HDEMESS1 00000013 10038204

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- 1 -

PETITION UNDER 37 C.F.R. § 1.48  
TO CORRECT THE INVENTORSHIP

**BEST AVAILABLE CO.**

Daniel T. Colbert  
Hongjie Dai  
Jason H. Hafner  
Andrew G. Rinzler  
Richard E. Smalley  
Jie Liu  
Kenneth A. Smith  
Ting Guo  
Pavel Nikolaev  
Andreas Thess.

The identification of the inventors specified on the original Declaration for this application was incorrect. This misidentification of the inventors was made through error and without deceptive intent.

The Official Filing Receipt for this application was issued on February 12, 2002. A corrected Declaration was filed on July 2, 2003 shortly after the error in the inventorship was discovered and the document was signed by the inventors. A Request for Corrected Filing Receipt was filed on October 22, 2003 after this office did not receive a corrected filing receipt by the PTO after its receipt of the Corrected Declaration. A Response to Request for Corrected Filing Receipt was issued by the PTO on November 12, 2003. This Response indicated that a Petition to Correct the Inventorship was required to correct the inventorship of this application. This Petition is being filed as soon as practicable after signature of all the required documents. Accordingly, this document is being timely filed under 37 CFR §§ 1.116 and 1.312.

Attached to this Request are the following documents as specified in 37 CFR § 1.48:

1. A signed statement from all of the inventors indicating that the error in the inventorship occurred without deceptive intention on their part;

2. A copy of the Amended Declaration and Power of Attorney signed by all ten (10) inventors and filed with the PTO on July 2, 2003;
3. A copy of the Assignment signed by all ten (10) inventors and recorded with the Assignment Branch of the PTO on May 16, 2003 at Reel 014070 Frame 0372;
4. A copy of the Consent for Correction of Inventors, signed by Peter L. Schuerman, Acting Director, Office of Technology Transfer on behalf of Assignee, William Marsh Rice University;
5. Statement Under 37 CFR § 3.73(b), signed by Peter L. Schuerman, Acting Director, Office of Technology Transfer on behalf of Assignee, William Marsh Rice University;
6. Power of Attorney and Correspondence Address Indication Form, signed by Peter L. Schuerman, Acting Director, Office of Technology Transfer on behalf of Assignee, William Marsh Rice University; and
7. Supplemental Application Data Sheet reflecting all inventor information.

Applicant hereby requests that the inventor list and order of the inventors be changed to reflect the inventors and their order as specified above.

In the event this petition is granted, Applicant further respectfully requests the change be noted in the patent application and the file sent to the Application Processing Division for correction on the file wrapper label and the PALM data base regarding inventorship. MPEP § 605.04(g). Attached is a copy of the Official Filing Receipt with the changes to the filing receipt noted in red.

Enclosed is the Petition Fee in the amount of \$130.00. It is believed that no additional fees are due. However, the Director is hereby authorized to deposit any overpayment and debit any further charges to Deposit Account Number 23-2426 of Winstead Sechrest & Minick P.C.

ATTORNEY DOCKET NO.  
11321-P011C1D3

PATENT  
Serial No. 10/038,204

Applicant respectfully requests that Applicant's attorney be called at the below listed number if it is believed that such a discussion would be helpful in resolving any problems or questions.

Respectfully submitted,

WINSTEAD SECHREST & MINICK P.C.

Attorneys for Applicant

Date: 11/21/04

By: 

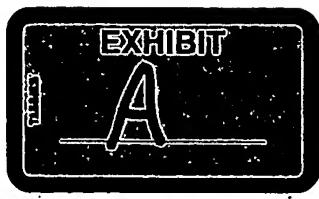
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**arraign** (är'än') *tr.v.* -aigned, -aligning, -aligns. 1. *Law.* To call before a court to answer to an indictment. 2. To call to account; charge: "Johnson arraigned the modern politics of his country as entirely devoid of all principle" (Boswell). *ME arraignen* < OFr. *arrainier* < VLat. *\*ad-rati-nare* : Lat. *ad*, to + Lat. *rati*, account. —see **REASON**. —*arraign'er* n. —*arraignment* n.

**arrange** (är'än') *v.* -anged, -anging, -anges. —*tr.* 1. To put into a specific order or relation; dispose. 2. To plan or prepare for: *arrange a picnic*. 3. To agree about; settle: "It has been arranged for him by his family to marry a girl of his class" (Edmund Wilson). 4. *Mus.* To recast (music) for other instruments or voices or for another style of performance. —*intr.* 1. To come to an agreement. 2. To make preparations; plan: *arrange for a sabbatical* (ME *urangen* < OFr. *engager* : *de*, to (< Lat. *ad*) + *engager*, to put in a line + *eng*, line of Germanic orig.). —*arranger* n.

**arrangement** (är'än'j'mənt) *n.* 1. The act or process of arranging. 2. The condition, manner, or result of being arranged; disposal. 3. A collection or set of things that have been arranged. 4. Often arrangements. A provision or plan made in preparation for an undertaking. 5. An agreement or settlement; disposition. 6. *Mus.* a. An adaptation of a composition for other instruments or voices or to another style or level of difficulty. b. A composition so arranged. —*arrant* (är'ənt) *adj.* Being completely such; thoroughgoing; *as arrant knave*. [Var. of *ARRANT*.] —*arrantly* *adv.*

**arras** (är'əs) *n.* 1. A tapestry. 2. A wall hanging, esp. of tapestry. [ME, after *Arras*, France.]

**array** (är'ē) *tr.v.* -rayed, -raying, -rays. 1. To arrange or draw up as troops in battle order. 2. To deck in finery; adorn. —*n.* 1. An orderly arrangement, esp. of troops. 2. An impressive display of numerous persons or objects: "a heathenish array of monstrous clubs and spears" (Melville). 3. Splendid attire; finery. 4. *Math.* a. A rectangular arrangement of quantities in rows and columns, as in a matrix. b. Numerical data linearly ordered by magnitude. 5. An arrangement of computer memory elements in one or several planes. [ME *arrayen* < OFr. *arreer* < VLat. *\*arredare*, of Germanic orig.]

**arrayed** (är'ēd) *n.* 1. The act or process of arraying. 2. Something arrayed; array.

**arrayage** (är'ēj'ā) *n.* 1. The state of being in arrears. 2. An amount owed in payment.

**arrears** (är'ērēs) *n.* 1. An unpaid and overdue debt or an unfinished obligation. 2. The state of being behind in fulfilling contracted obligations or payments: *in arrears*. [*< ME ure, behind* < OFr. *urec* < LLat. *ad retro*, backward : *Lat. ad*, to + *Lat. retro*, behind.]

**arrest** (är'ēst) *tr.v.* -rested, -resting, -rests. 1. To stop or check the motion, progress, growth, or spread of. 2. To seize and hold under authority of the law. 3. To capture and hold (the attention, for example); engage. —*n.* 1. a. The act of arresting. b. The state of being arrested. 2. A device for arresting motion, esp. of a moving part. —*Idiom*. under arrest. Detained in legal custody. [ME *arresten* < OFr. *arrest* < VLat. *\*arrestare* : Lat. *ad*, to + Lat. *restare*, to stand still (re, back + stare, to stand).] —*arrestor* *n.* —*arrestment* *n.*

**arresting** (är'ēst'ing) *adj.* Attracting and holding the attention; striking. —*arrestingly* *adv.* **arhythmia** (är'ēth'mē-ə) *n.* Any irregularity in the force or rhythm of the heartbeat. [Gk. *arrhythmos*, rhythmless.] **arhythmic** (är'ēth'mik) *adj.* without + *rhythmos*, rhythm. [*arhythmic* also *arrhythmic*] *al-* *arrhythmic* (är'ēth'mik) *adj.* Lacking rhythm or regularity of rhythm. —*arrhyth'mi-cally* *adv.*

**arriere-ban** (är'ē-är-bān', -bān') *n.* 1. In medieval France, a royal proclamation by which vassals were summoned to military service. 2. The vessels summoned by an *arriere-ban*. [Fr. < OFr. *arriere-ban*, alteration of *herban*, of Germanic orig.]

**arriere-pense** (är'ē-äf'päns-äf') *n.* An ulterior motive. [Fr. *arrire*, in back + *pense*, thought.]

**arriére-avis** (är'ē-äv'ēs) *n.* *Archit.* The sharp edge or ridge formed by two surfaces meeting at an angle, as in a saddle. [Alteration of OFr. *arrete*, ridge. —see *ARREST*.]

**arrival** (är'ēv'äl') *n.* 1. The act of arriving. 2. A person or thing that arrives or has arrived. 3. The reaching of a goal or objective as a result of some process or effort.

**arrive** (är'iv') *intr.v.* -ived, -iving, -ives. 1. To reach a destination. 2. To come at length; take place: *The day of crisis arrived*. 3. To achieve success or recognition. —*phrase* *arrive at*. To reach through some process or effort: *arrive at a decision*. [ME *ariven* < OFr. *ariver* < VLat. *\*arri-prise* : Lat. *ad*, to + Lat. *ripa*, shore.] —*arriver* *n.*

**arrivedista** (är'ēv'istä) *n.* pl. -istas (-äz'). A social climber or opportunist; upstart. [Fr. *< arriver*, to arrive < OFr. *ariver*.]

**arròba** (är'ōbä) *n.* *Archaic.* 1. A unit of weight in Spanish-speaking countries equal to about 25 pounds. 2. A unit of weight in Portuguese-speaking countries equal to about 32 pounds. 3. A liquid measure used in Spanish-speaking countries, having varying value, but approximately equal to 17 quarts when used to measure wine. [Sp. and Port. < Ar. *ar-rab*, the quarter (of a quintal).]

**arrogance** (är'ō-gans) *n.* The state or quality of being arrogant.

**arrogant** (är'ō-gant) *adj.* 1. Overly convinced of one's own importance; overbearing; haughty. 2. Characterized by, or arising from, haughty self-importance. [ME *arrogant* < OFr. *arrogant* < Lat. *arrogans*, pr. part. of *arrogare*, to arrogate.] —*arrogantly* *adv.*

**arrogate** (är'ō-gāt') *tr.v.* -gated, -gating, -gates. 1. To claim, take, or assume for oneself without right. 2. To attribute another unwarrantably. [Lat. *arrogare*, arrogat- : *ad*, to + *rogare*, to ask.] —*arrogation* *n.* —*arrogative* *adj.* —*arrogator* *n.*

**arrou-dissement** (är'ō-dē-mäñ') *n.* 1. The chief administrative subdivision of a department in France. 2. A municipal subdivision of some large French cities. [Fr. < *arrondir*, to round out : *à*, to (< Lat. *ad*) + *roundir*, to make round.]

**arrow** (är'ō) *n.* 1. A straight, thin shaft that is shot from a bow and usually made of light wood with a pointed head at one end and slight stabilizing feathers at the other. 2. Something similar to an arrow in form, function, or speed. 3. A sign or symbol shaped like an arrow and used to indicate direction. [ME *arwe* < OE. *weoru*.]

**arrowhead** (är'ō-hed') *n.* 1. The pointed, removable striking tip of an arrow. 2. Something shaped like an arrowhead, such as a mark indicating a limit on a drawing. 3. Any aquatic or marsh plant of the genus *Sagittaria*, having arrowhead-shaped leaves and white flowers.

**arrowroot** (är'ō-roōt', -root') *n.* 1. A tropical American plant, *Marcantia arundinacea*, having roots that yield an edible starch. 2. The starch from the arrowroot and from certain plants of the genera *Manihot*, *Curcumia*, and *Tacca*. [So called because it was used to draw poison from arrow wounds.]

**arrowwood** (är'ō-woo'd') *n.* Any of several small shrubs of the genus *Viburnum*, such as the dockmackie, having straight tough stems formerly used by the Indians to make arrows.

**arrow worm** *n.* Any of various small, slender marine worms of the phylum Clitellata, having prehensile bristles on each side of the mouth.

**arrowyo** (är'ō-yō) *n.* pl. -yo. 1. A deep gully cut by an intermittent stream; dry gulch. 2. A brook or creek. [Sp., ult. < Lat. *arrixia*, mine-shaft.]

**area** (är'ēə) *n.* Chiefl. Brit. Variant of *asee*.

**arsenal** (är'ē-näl') *n.* 1. A governmental establishment for the storing, manufacturing, or repairing of arms, ammunition, and other war materiel. 2. A stock of weapons. 3. A store or supply: *She arrived with an arsenal of assistants*. [Ital. *arsenale* < Ar. *dar-as-sindub* : *dar*, the + *sindub*, manufacture < *sindab*, he made.]

**arsenate** (är'ē-nāt', -nāt') *n.* A salt or ester of arsenic acid.

**arsenic** (är'ē-nik) *n.* 1. A highly poisonous metallic element having three allotropic forms, yellow, black, or gray, of which the brittle, crystalline gray is the most common. Arsenic and its compounds are used in insecticides, wood killers, solid-state doping agents, and various alloys. Atomic number 33; atomic weight 74.92; valence 3 or 5. Gray arsenic melts at 817°C (at 28 atm pressure), sublimes at 613°C, and has a specific gravity of 5.73. 2. Arsenic trioxide. —*adj.* **arsenic** (är-sē-nik). Of or containing arsenic, esp. with valence 3. [ME *arsenik* < OFr. *< Lat. arsenicum* < Gk. *arsenikos*, yellow orpiment < Pers. *zarnik* < *zar*, gold.]

**arsenite acid** (är'ē-nit'ik) *n.* A poisonous white translucent crystalline compound,  $H_2AsO_4$ , used to manufacture arsenates.

**arsen-i-cal** (är'ē-nē-t'käl) *adj.* Of or containing arsenic. —*n.* A drug or preparation containing arsenic.

**arsenic trioxide** (är'ē-nik-trī-ōd') *n.* A poisonous white amorphous powder,  $As_2O_3$ , used in insecticides, rat poison, and weed killers.

**arsenide** (är'ē-nid') *n.* A compound of arsenic with a more electropositive element.

**arsen-ous** (är'ē-nō-əs) *adj.* Of or containing arsenic, esp. with valence 3.

**arsenio-pyrite** (är'ē-nē-pī'rit') *n.* A silver-white to gray arsenic ore, essentially  $FeS_2 \cdot Fe_2As_2$ .

**arschin** (är'shēn') *n.* Variant of *archine*.

**arsine** (är'shēn', är'shēn') *n.* A colorless, flammable, very poisonous gas,  $AsH_3$ , used as a military poison gas, as a solid-state doping agent, and in organic synthesis. [ARSENIC + -INE.]

**arsine** (är'shēn) *n.* pl. -ses (-sēz'). 1. Originally, the unaccented or shorter part of a foot of verse. 2. In modern usage, the accented or longer part of a foot of verse. 3. *Mus.* The upbeat or unaccented part of a measure. [L.Lat. *arsine*, raising of the voice < Gk. *upward* heat < *acirein*, to bite.]

**arsion** (är'shōn) *n.* The crime of maliciously setting fire to the buildings or property of another or of burning one's own property for some improper purpose, as to collect insurance. [AN < OFr. *arçon* < Mod. Lat. *arsio* < Lat. *ardere*, to burn.] —*arsenist* *n.*

**arsphenamine** (är'fēn'äm'ēn) *n.* A yellow hygroscopic powder,  $C_{12}H_{12}N_2O_2As_2HCl \cdot 2H_2O$ , formerly used to treat syphilis. [ARSENIC + PHEN(YL) + AMINE.]

**art** (är't) *n.* 1. Human effort to imitate, supplement, alter, or



arrowhead  
Above: Tip of an arrow  
Below: *Sagittaria latifolia*

JUN 21 2004  
OTR

### INVENTOR STATEMENT

As below named inventors, we hereby state that the correct inventorship for the applications related to the invention(s) entitled:

### MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM NANOTUBE ASSEMBLIES

for which the following applications have been filed:

Appl. Serial No.	Att. Docket No.	Type/Continuity Type	Filing Date
60/023,732	None	Provisional	August 8, 1996
PCT/US97/13896	11321-P011WO	International	August 8, 1997
09/242,040	11321-P011WOUS	National Phase	September 13, 1999
10/000,746	11321-P011WUC1	Continuation	November 30, 2001
10/028,231	11321-P011C1D1	Divisional	December 21, 2001
10/027,671	11321-P011C1D2	Divisional	December 21, 2001
10/038,204	11321-P011C1D3	Divisional	December 21, 2001
10/027,753	11321-P011C1D4	Divisional	December 21, 2001
10/036,684	11321-P011C1D5	Divisional	December 21, 2001
10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001
10/670,955	11321-P011CD2D1	Divisional of 10/027,671	September 25, 2003

are the following inventors: Daniel T. Colbert; Hongjie Dai; Jason H. Hafner; Andrew G. Rinzler; Richard E. Smalley; Jie Liu; Kenneth A. Smith; Ting Guo; Pavel Nikolaev and Andreas Thess.

The error in the original list of inventors was inadvertent and such error arose without any deceptive intent on the part of any of the persons named as an original inventor or on the part of the persons who through error were not originally named as an inventor.

Attorney Docket No.  
11321-P011 Series

FULL NAME OF FIRST INVENTOR: **COLBERT, Daniel T.**

INVENTOR'S SIGNATURE: 

DATE: 6/17/04

FULL NAME OF SECOND INVENTOR: **DAI, Hongjie**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF THIRD INVENTOR: **HAFNER, Jason H.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF FOURTH INVENTOR: **RINZLER, Andrew G.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF FIFTH INVENTOR: **SMALLEY, Richard E.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF SIXTH INVENTOR: **JIE LIU**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF EIGHTH INVENTOR: TING GUO**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF TENTH INVENTOR: ANDREAS THESS**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

DALLAS\_1\3913352\2  
11321-P011WOUS 01/07/2004

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10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
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10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001
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Attorney Docket No.  
11321-P011 Series

FULL NAME OF FIRST INVENTOR: **COLBERT, Daniel T.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF SECOND INVENTOR: **DAI, Hongjie**

INVENTOR'S SIGNATURE: Hongjie D. DATE: 7/14/04

FULL NAME OF THIRD INVENTOR: **HAFNER, Jason H.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF FOURTH INVENTOR: **RINZLER, Andrew G.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF FIFTH INVENTOR: **SMALLEY, Richard E.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF SIXTH INVENTOR: **JIE LIU**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF EIGHTH INVENTOR: TING GUO**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF TENTH INVENTOR: ANDREAS THESS**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**DALLAS 11391335212**  
**11321-P011WOUS 01/07/2004**

**INVENTOR STATEMENT**

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10/036,684	11321-P011C1D5	Divisional	December 21, 2001
10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001
10/670,955	11321-P011CD2D1	Divisional of 10/027,671	September 25, 2003

are the following inventors: Daniel T. Colbert; Hongjie Dai; Jason H. Hafner; Andrew G. Rinzler; Richard E. Smalley; Jie Liu; Kenneth A. Smith; Ting Guo; Pavel Nikolaev and Andreas Thess.

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Attorney Docket No.  
11321-P011 Series

FULL NAME OF FIRST INVENTOR: **COLBERT, Daniel T.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF SECOND INVENTOR: **DAI, Hongjie**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF THIRD INVENTOR: **HAFNER, Jason H.**

INVENTOR'S SIGNATURE:  DATE: 6/21/04

FULL NAME OF FOURTH INVENTOR: **RINZLER, Andrew G.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF FIFTH INVENTOR: **SMALLEY, Richard E.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF SIXTH INVENTOR: **JIE LIU**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**Attorney Docket No.  
11321-P011 Series**

**FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**FULL NAME OF EIGHTH INVENTOR: TING GUO**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**FULL NAME OF TENTH INVENTOR: ANDREAS THESS**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

DALLAS\_13913352\2  
11321-P011WOUS 01/07/2004

**INVENTOR STATEMENT**

As below named inventors, we hereby state that the correct inventorship for the applications related to the invention(s) entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
NANOTUBE ASSEMBLIES**

for which the following applications have been filed:

<b>Appl Serial No.</b>	<b>Att. Docket No.</b>	<b>Type/Continuity Type:</b>	<b>Filing Date:</b>
60/023,732	None	Provisional	August 8, 1996
PCT/US97/13896	11321-P011WO	International	August 8, 1997
09/242,040	11321-P011WOUS	National Phase	September 13, 1999
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10/027,753	11321-P011C1D4	Divisional	December 21, 2001
10/036,684	11321-P011C1D5	Divisional	December 21, 2001
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10/027,668	11321-P011CD10	Divisional	December 21, 2001
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Attorney Docket No.  
11321-P011 Series

FULL NAME OF FIRST INVENTOR: **COLBERT, Daniel T.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

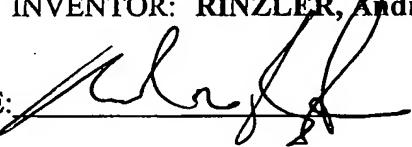
FULL NAME OF SECOND INVENTOR: **DAI, Hongjie**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF THIRD INVENTOR: **HAFNER, Jason H.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF FOURTH INVENTOR: **RINZLER, Andrew G.**

INVENTOR'S SIGNATURE:  DATE: 8/10/04

FULL NAME OF FIFTH INVENTOR: **SMALLEY, Richard E.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**DALLAS 13913352/2**  
**11321-P011WOUS 01/07/2004**

Attorney Docket No.  
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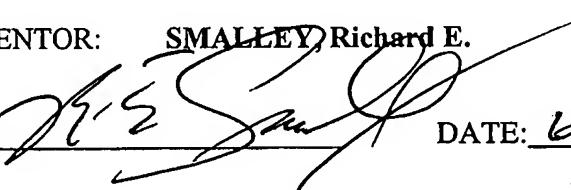
FULL NAME OF THIRD INVENTOR: **HAFNER, Jason H.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF FIFTH INVENTOR: **SMALLEY, Richard E.**

INVENTOR'S SIGNATURE:  DATE: 6/30/04

FULL NAME OF SIXTH INVENTOR: **JIE LIU**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**Attorney Docket No.  
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FULL NAME OF FIFTH INVENTOR: **SMALLEY, Richard E.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF SIXTH INVENTOR: **JIE LIU**

INVENTOR'S SIGNATURE: 

DATE: 07/10/04

**Attorney Docket No.**  
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**FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

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**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

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DALLAS\_1\3913352\2  
11321-P011WOUS 01/07/2004

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**FULL NAME OF FIRST INVENTOR:** **COLBERT, Daniel T.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF SECOND INVENTOR:** **DAI, Hongjie**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF THIRD INVENTOR:** **HAFNER, Jason H.**

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**FULL NAME OF FOURTH INVENTOR:** **RINZLER, Andrew G.**

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**FULL NAME OF FIFTH INVENTOR:** **SMALLEY, Richard E.**

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**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH**

INVENTOR'S SIGNATURE: Kenneth A. Smith DATE: July 26, 2004

**FULL NAME OF EIGHTH INVENTOR: TING GUO**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

**FULL NAME OF TENTH INVENTOR: ANDREAS THESS**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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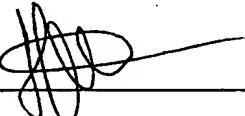
FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH

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INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV

INVENTOR'S SIGNATURE:  DATE: 7.9.04

FULL NAME OF TENTH INVENTOR: ANDREAS THESS

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

DALLAS\_11321-P011WOUS.01/07/2004

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10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001
10/670,955	11321-P011CD2D1	Divisional of 10/027,671	September 25, 2003

are the following inventors: Daniel T. Colbert; Hongjie Dai; Jason H. Hafner; Andrew G. Rinzler; Richard E. Smalley; Jie Liu; Kenneth A. Smith; Ting Guo; Pavel Nikolaev and Andreas Thess.

The error in the original list of inventors was inadvertent and such error arose without any deceptive intent on the part of any of the persons named as an original inventor or on the part of the persons who through error were not originally named as an inventor.

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF FIRST INVENTOR:** **COLBERT, Daniel T.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF SECOND INVENTOR:** **DAI, Hongjie**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF THIRD INVENTOR:** **HAFNER, Jason H.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF FOURTH INVENTOR:** **RINZLER, Andrew G.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF FIFTH INVENTOR:** **SMALLEY, Richard E.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF SIXTH INVENTOR:** **JIE LIU**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF EIGHTH INVENTOR: TING GUO**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**FULL NAME OF TENTH INVENTOR: ANDREAS THESS**

**INVENTOR'S SIGNATURE:** Andreas Thess **DATE:** July 15 2004

DALLAS 10391335212  
11321-P011WOUS 01/07/2004

Attorney Docket No.  
11321-P011 Series

**AMENDED DECLARATION AND POWER OF ATTORNEY FOR  
U.S. NATIONAL PHASE PATENT APPLICATION  
CLAIMING PRIORITY TO PCT APPLICATION  
(37 CFR 1.63)**

As below named inventors, we hereby declare that:

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We believe that we are original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
NANOTUBE ASSEMBLIES**

the specification of which:

is attached hereto; or

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10/027,750	11321-P011C1D7	Divisional	December 21, 2001
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**EXHIBIT**

tablets

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**FULL NAME OF FIRST INVENTOR:** **COLBERT, Daniel T.**

INVENTOR'S SIGNATURE: 

DATE: 2/25/03

**RESIDENCE:** **1911 Milford St., Houston, TX 77098 USA**

**CITIZENSHIP:** **United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF SECOND INVENTOR: DAI, Hongjie**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 365 Pescadero Terrace, Sunnyvale, CA 94086 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF THIRD INVENTOR: HAFNER, Jason H.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 373 Highland Ave. #203, Somerville, Massachusetts 02144 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FOURTH INVENTOR: RINZLER, Andrew G.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1713 SW 186<sup>th</sup> St., Newberry, Florida 32669 USA**

**CITIZENSHIP: United States of America**

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**FULL NAME OF FIFTH INVENTOR: SMALLEY, Richard E.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1816 Bolsover St., Houston, TX 77081 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF SIXTH INVENTOR: JIE LIU**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE: 5825 Gulfton, Apartment 3214**  
**Houston, Texas 77081**

**CITIZENSHIP: U.S.A.**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH**

**INVENTOR'S SIGNATURE:** Kenneth A. Smith **DATE:** 2-25-02

**RESIDENCE: 333 Dominion, Apartment 1334**  
**Katy, Texas 77450**

**CITIZENSHIP: U.S.A.**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF EIGHTH INVENTOR: TING GUO**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE: 2612 Calder Court**  
**Davis, California 95616**

**CITIZENSHIP: CHINA**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE: 2232 ½ TROON**  
**Houston, Texas 77019**

**CITIZENSHIP: RUSSIA**

**POST OFFICE ADDRESS: (Same as Residence)**

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF TENTH INVENTOR: ANDREAS THESS**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: Max-Planck-Institut Biochemie; Abteilung Molekulare,  
Strukturbiologie am Klopferspitz 189, D-82152 Martinsried, Germany**

**CITIZENSHIP: GERMANY**

**POST OFFICE ADDRESS: (Same as Residence)**

AUSTIN\_1\208783\1  
11321-P011 WUC1 02/19/2003

Attorney Docket No.  
11321-P011 Series

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**FULL NAME OF FIRST INVENTOR:** **COLBERT, Daniel T.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** **1911 Milford St., Houston, TX 77098 USA**

**CITIZENSHIP:** **United States of America**

**POST OFFICE ADDRESS:** **(Same as Residence)**

Attorney Docket No.  
11321-P011 Series

FULL NAME OF SECOND INVENTOR: DAI, Hongjie

INVENTOR'S SIGNATURE: Hongjie

DATE: 2/27/03

RESIDENCE: 365 Pescadero Terrace, Sunnyvale, CA 94086 USA

CITIZENSHIP: United States of America

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF THIRD INVENTOR: HAFNER, Jason H.

INVENTOR'S SIGNATURE: \_\_\_\_\_

DATE: \_\_\_\_\_

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**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

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of the law firm of WINSTEAD SECHREST & MINICK P.C. Please direct all correspondence to:

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WINSTEAD SECHREST & MINICK P.C.  
100 Congress Avenue, Suite 800  
Austin, Texas 78701 USA

and direct all telephone calls to Ross Spencer Garsson, Esq. at 512-370-2870 and all facsimile communications to 512-370-2850.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**FULL NAME OF FIRST INVENTOR:** **COLBERT, Daniel T.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** **1911 Milford St., Houston, TX 77098 USA**

**CITIZENSHIP:** **United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

43  
Attorney Docket No.  
11321-P011 Series

FULL NAME OF SECOND INVENTOR: **DAI, Hongjie**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: **365 Pescadero Terrace, Sunnyvale, CA 94086 USA**

CITIZENSHIP: **United States of America**

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF THIRD INVENTOR: **HAFNER, Jason H.**

INVENTOR'S SIGNATURE:  DATE: 03/06/03

RESIDENCE: ~~373 Highland Ave. #203, Somerville, Massachusetts 02144 USA~~

~~3610 Underwood, Houston, Texas, 77025, USA~~

CITIZENSHIP: **United States of America**

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF FOURTH INVENTOR: **RINZLER, Andrew G.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: **1713 SW 186<sup>th</sup> St., Newberry, Florida 32669 USA**

CITIZENSHIP: **United States of America**

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF FIFTH INVENTOR: **SMALLEY, Richard E.**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: **1816 Bolsover St., Houston, TX 77081 USA**

CITIZENSHIP: **United States of America**

POST OFFICE ADDRESS: (Same as Residence)

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**FULL NAME OF SIXTH INVENTOR: JIE LIU**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE: 5825 Gulfton, Apartment 3214**  
**Houston, Texas 77081**

**CITIZENSHIP: U.S.A.**

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**FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE: 333 Dominion, Apartment 1334**  
**Katy, Texas 77450**

**CITIZENSHIP: U.S.A.**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF EIGHTH INVENTOR: TING GUO**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE: 2612 Calder Court**  
**Davis, California 95616**

**CITIZENSHIP: CHINA**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE: 2232 ½ TROON**  
**Houston, Texas 77019**

**CITIZENSHIP: RUSSIA**

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**Attorney Docket No.**  
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**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE: Max-Planck-Institut Biochemie; Abteilung Molekulare,  
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**CITIZENSHIP: GERMANY**

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AUSTIN\_1\208783\1  
11321-P011WUC1 02/19/2003

Attorney Docket No.  
11321-P011 Series

**AMENDED DECLARATION AND POWER OF ATTORNEY FOR  
U.S. NATIONAL PHASE PATENT APPLICATION  
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(37 CFR 1.63)**

As below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

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**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
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is attached hereto; or

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Appl Serial No.	Att Docket No.	Continuity Type:	Filing Date:
10/028,231	11321-P011C1D1	Divisional	December 21, 2001
10/027,671	11321-P011C1D2	Divisional	December 21, 2001
10/038,204	11321-P011C1D3	Divisional	December 21, 2001
10/027,753	11321-P011C1D4	Divisional	December 21, 2001
10/036,684	11321-P011C1D5	Divisional	December 21, 2001
10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
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[ORIGINAL BASE/PRIORITY APPLICATION]			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
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**Attorney Docket No.**  
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**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** **1911 Milford St., Houston, TX 77098 USA**

**CITIZENSHIP:** **United States of America**

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**RESIDENCE: 365 Pescadero Terrace, Sunnyvale, CA 94086 USA**

**CITIZENSHIP: United States of America**

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**FULL NAME OF THIRD INVENTOR: HAFNER, Jason H.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 373 Highland Ave. #203, Somerville, Massachusetts 02144 USA**

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**FULL NAME OF FOURTH INVENTOR: RINZLER, Andrew G.**

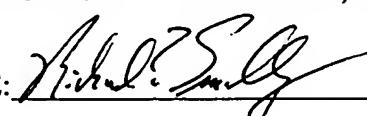
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**INVENTOR'S SIGNATURE:  DATE: 2/20/03**

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We hereby claim the benefit for each of the Applications under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

Application No.  
60/023,732

Official Filing Date  
August 8, 1996

We hereby claim the benefit for each of the Applications under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, We acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US97/13896	8 August 1997	WO 98/05920

**Attorney Docket No.  
11321-P011 Series**

For each of the Divisional Patent Applications, we further claim the benefit under 35 U.S.C. 120 of United States Patent Application Serial No. 10/000,746, and, insofar as the subject matter of each of the claims of any of the Divisional Patent Application is not disclosed in the this prior United States application in the manner provided by the first paragraph of 35 U.S.C. 112, we acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

**POWER OF ATTORNEY:** As named inventors, we hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Ross Spencer Garsson, Reg. No. 38,150  
Hugh R. Kress, Reg. No. 36,574  
Robert C. Shaddox, Reg. No. 34,011  
Henry L. Ehrlich, Reg. No. 39,663  
Timothy M. Donoughue, Reg. No. 46,668  
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Edward T. Mickelson, Reg. No. 50,413

of the law firm of WINSTEAD SECHREST & MINICK P.C. Please direct all correspondence to:

Ross Spencer Garsson, Esq.  
WINSTEAD SECHREST & MINICK P.C.  
100 Congress Avenue, Suite 800  
Austin, Texas 78701 USA

and direct all telephone calls to Ross Spencer Garsson, Esq. at 512-370-2870 and all facsimile communications to 512-370-2850.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**FULL NAME OF FIRST INVENTOR:** **COLBERT, Daniel T.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** **1911 Milford St., Houston, TX 77098 USA**

**CITIZENSHIP:** **United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**Attorney Docket No.  
11321-P011 Series**

**FULL NAME OF SECOND INVENTOR: DAI, Hongjie**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 365 Pescadero Terrace, Sunnyvale, CA 94086 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF THIRD INVENTOR: HAFNER, Jason H.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 373 Highland Ave. #203, Somerville, Massachusetts 02144 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FOURTH INVENTOR: RINZLER, Andrew G.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1713 SW 186<sup>th</sup> St., Newberry, Florida 32669 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FIFTH INVENTOR: SMALLEY, Richard E.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1816 Bolsover St., Houston, TX 77081 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

Attorney Docket No.  
11321-P011 Series

FULL NAME OF SIXTH INVENTOR: JIE LIU

INVENTOR'S SIGNATURE:  DATE: 02/21/03

RESIDENCE: ~~5825 Gulfton, Apartment 2214  
Houston, Texas 77081~~ 502 Westminster Drive  
Chapel Hill, North Carolina 27514

*st 02/21/03*

CITIZENSHIP: U.S.A.

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: 333 Dominion, Apartment 1334  
Katy, Texas 77450

CITIZENSHIP: U.S.A.

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF EIGHTH INVENTOR: TING GUO

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: 2612 Calder Court  
Davis, California 95616

CITIZENSHIP: CHINA

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: 2232 ½ TROON  
Houston, Texas 77019

CITIZENSHIP: RUSSIA

POST OFFICE ADDRESS: (Same as Residence)

Attorney Docket No.  
11321-P011 Series

FULL NAME OF TENTH INVENTOR: **ANDREAS THESS**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: **Max-Planck-Institut Biochemie; Abteilung Molekulare,  
Strukturbioologie am Klopferspitz 189, D-82152 Martinsried, Germany**

CITIZENSHIP: **GERMANY**

POST OFFICE ADDRESS: **(Same as Residence)**

AUSTIN\_1\208783\1  
11321-P011WUC1 02/19/2003

**Attorney Docket No.**  
**11321-P011 Series**

**AMENDED DECLARATION AND POWER OF ATTORNEY FOR  
U.S. NATIONAL PHASE PATENT APPLICATION  
CLAIMING PRIORITY TO PCT APPLICATION  
(37 CFR 1.63)**

As below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

We believe that we are original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
NANOTUBE ASSEMBLIES**

the specification of which:

- is attached hereto; or
- was filed on November 30, 2001 as a Continuation Application Number 10/000,746 (Attorney Docket No. 11321-P011WUC1) of U.S. National Phase of 09/242,040 and PCT Application Number PCT/US97/13896 which published as WO 98/05920 on February 12, 1998, corresponding to United States Provisional Patent Application No. 60/023,732, filed August 8, 1996.

The following divisionals of United States Patent Application Serial No. 10/000,746 have been filed (the "Divisional Patent Applications"):

Appl. Serial No.	Att. Docket No.	Continuity Type:	Filing Date:
10/028,231	11321-P011C1D1	Divisional	December 21, 2001
10/027,671	11321-P011C1D2	Divisional	December 21, 2001
10/038,204	11321-P011C1D3	Divisional	December 21, 2001
10/027,753	11321-P011C1D4	Divisional	December 21, 2001
10/036,684	11321-P011C1D5	Divisional	December 21, 2001
10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001

We further believe that we are original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the inventions of these Divisional Patent Applications.

**Attorney Docket No.**  
**11321-P011 Series**

Collectively, United States Patent Application Serial No. 10/000,746 and the Divisional Patent Applications are the "Applications".

We hereby state that we have reviewed and understand the contents of the above identified specifications for each of the Applications, including the claims. We hereby authorize our attorney, or his representative, to insert the Application Number, filing and amendment dates.

We acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR 1.56.

We hereby claim foreign priority benefits for each of the Applications under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
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[ORIGINAL BASE/PRIORITY APPLICATION]			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US97/13896	8 August 1997	WO 98/05920

**Attorney Docket No.  
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We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**FULL NAME OF FIRST INVENTOR:** **COLBERT, Daniel T.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** **1911 Milford St., Houston, TX 77098 USA**

**CITIZENSHIP:** **United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**Attorney Docket No.  
11321-P011 Series**

**FULL NAME OF SECOND INVENTOR: DAI, Hongjie**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 365 Pescadero Terrace, Sunnyvale, CA 94086 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF THIRD INVENTOR: HAFNER, Jason H.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 373 Highland Ave. #203, Somerville, Massachusetts 02144 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FOURTH INVENTOR: RINZLER, Andrew G.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1713 SW 186<sup>th</sup> St., Newberry, Florida 32669 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FIFTH INVENTOR: SMALLEY, Richard E.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1816 Bolsover St., Houston, TX 77081 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

Attorney Docket No.  
11321-P011 Series

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DATE: \_\_\_\_\_

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Houston, Texas 77081

CITIZENSHIP: U.S.A.

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH

INVENTOR'S SIGNATURE: Kenneth A. Smith DATE: 2-25-03

RESIDENCE: 333 Dominion, Apartment 1334  
Katy, Texas 77450

CITIZENSHIP: U.S.A.

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INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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Houston, Texas 77019

CITIZENSHIP: RUSSIA

POST OFFICE ADDRESS: (Same as Residence)

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF TENTH INVENTOR: ANDREAS THESS**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** **Max-Planck-Institut Biochemie; Abteilung Molekulare,  
Strukturbioologie am Klopferspitz 189, D-82152 Martinsried, Germany**

**CITIZENSHIP: GERMANY**

**POST OFFICE ADDRESS: (Same as Residence)**

AUSTIN\_1\208783\1  
11321-P011WUC1 02/19/2003

Attorney Docket No.  
11321-P011 Series

**AMENDED DECLARATION AND POWER OF ATTORNEY FOR  
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10/028,231	11321-P011C1D1	Divisional	December 21, 2001
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10/027,628	11321-P011C1D9	Divisional	December 21, 2001
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Attorney Docket No.  
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Attorney Docket No.  
11321-P011 Series

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**FULL NAME OF FIRST INVENTOR:** COLBERT, Daniel T.

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** 1911 Milford St., Houston, TX 77098 USA

**CITIZENSHIP:** United States of America

**POST OFFICE ADDRESS:** (Same as Residence)

Attorney Docket No.  
11321-P011 Series

FULL NAME OF SECOND INVENTOR: DAI, Hongjie

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: 365 Pescadero Terrace, Sunnyvale, CA 94086 USA

CITIZENSHIP: United States of America

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF THIRD INVENTOR: HAFNER, Jason H.

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: 373 Highland Ave. #203, Somerville, Massachusetts 02144 USA

CITIZENSHIP: United States of America

POST OFFICE ADDRESS: (Same as Residence)

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INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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FULL NAME OF FIFTH INVENTOR: SMALLEY, Richard E.

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

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CITIZENSHIP: United States of America

POST OFFICE ADDRESS: (Same as Residence)

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FULL NAME OF SIXTH INVENTOR: JIE LIU

INVENTOR'S SIGNATURE: \_\_\_\_\_

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Houston, Texas 77081

CITIZENSHIP: U.S.A.

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF SEVENTH INVENTOR: KENNETH A. SMITH

INVENTOR'S SIGNATURE: \_\_\_\_\_

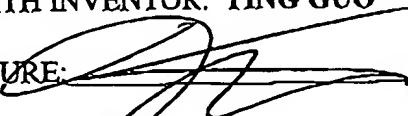
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RESIDENCE: 333 Dominion, Apartment 1334  
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CITIZENSHIP: U.S.A.

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF EIGHTH INVENTOR: TING GUO

INVENTOR'S SIGNATURE: 

DATE: 4/7/03

RESIDENCE: 2612 Calder Court  
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CITIZENSHIP: CHINA

POST OFFICE ADDRESS: (Same as Residence)

FULL NAME OF NINTH INVENTOR: PAVEL NIKOLAEV

INVENTOR'S SIGNATURE: \_\_\_\_\_

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RESIDENCE: Max-Planck-Institut Biochemie; Abteilung Molekulare,  
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AUSTIN\_1V208783\1  
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10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001

We further believe that we are original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the inventions of these Divisional Patent Applications.

**Attorney Docket No.**  
**11321-P011 Series**

Collectively, United States Patent Application Serial No. 10/000,746 and the Divisional Patent Applications are the "Applications".

We hereby state that we have reviewed and understand the contents of the above identified specifications for each of the Applications, including the claims. We hereby authorize our attorney, or his representative, to insert the Application Number, filing and amendment dates.

We acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR 1.56.

We hereby claim foreign priority benefits for each of the Applications under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				Yes	No
[ORIGINAL BASE/PRIORITY APPLICATION]			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

We hereby claim the benefit for each of the Applications under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

Application No.  
60/023,732

Official Filing Date  
August 8, 1996

We hereby claim the benefit for each of the Applications under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, We acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US97/13896	8 August 1997	WO 98/05920

**Attorney Docket No.  
11321-P011 Series**

For each of the Divisional Patent Applications, we further claim the benefit under 35 U.S.C. 120 of United States Patent Application Serial No. 10/000,746, and, insofar as the subject matter of each of the claims of any of the Divisional Patent Application is not disclosed in the this prior United States application in the manner provided by the first paragraph of 35 U.S.C. 112, we acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

**POWER OF ATTORNEY:** As named inventors, we hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Ross Spencer Garsson, Reg. No. 38,150  
Hugh R. Kress, Reg. No. 36,574  
Robert C. Shaddox, Reg. No. 34,011  
Henry L. Ehrlich, Reg. No. 39,663  
Timothy M. Donoughue, Reg. No. 46,668  
Reece A. Scott, Reg. No. 41,297  
Edward T. Mickelson, Reg. No. 50,413

of the law firm of WINSTEAD SECHREST & MINICK P.C. Please direct all correspondence to:

Ross Spencer Garsson, Esq.  
WINSTEAD SECHREST & MINICK P.C.  
100 Congress Avenue, Suite 800  
Austin, Texas 78701 USA

and direct all telephone calls to Ross Spencer Garsson, Esq. at 512-370-2870 and all facsimile communications to 512-370-2850.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**FULL NAME OF FIRST INVENTOR: COLBERT, Daniel T.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1911 Milford St., Houston, TX 77098 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF SECOND INVENTOR: DAI, Hongjie**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 365 Pescadero Terrace, Sunnyvale, CA 94086 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF THIRD INVENTOR: HAFNER, Jason H.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 373 Highland Ave. #203, Somerville, Massachusetts 02144 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FOURTH INVENTOR: RINZLER, Andrew G.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1713 SW 186<sup>th</sup> St., Newberry, Florida 32669 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FIFTH INVENTOR: SMALLEY, Richard E.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1816 Bolsover St., Houston, TX 77081 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

Attorney Docket No.  
11321-P011 Series

FULL NAME OF SIXTH INVENTOR: **JIE LIU**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: **5825 Gulfton, Apartment 3214  
Houston, Texas 77081**

CITIZENSHIP: **U.S.A.**

POST OFFICE ADDRESS: **(Same as Residence)**

FULL NAME OF SEVENTH INVENTOR: **KENNETH A. SMITH**

INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: **333 Dominion, Apartment 1334  
Katy, Texas 77450**

CITIZENSHIP: **U.S.A.**

POST OFFICE ADDRESS: **(Same as Residence)**

FULL NAME OF EIGHTH INVENTOR: **TING GUO**

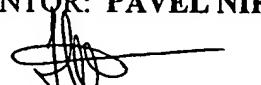
INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

RESIDENCE: **2612 Calder Court  
Davis, California 95616**

CITIZENSHIP: **CHINA**

POST OFFICE ADDRESS: **(Same as Residence)**

FULL NAME OF NINTH INVENTOR: **PAVEL NIKOLAEV**

INVENTOR'S SIGNATURE:  DATE: 2.21.03

RESIDENCE: **2232 ~~X~~ TROON  
Houston, Texas 77019**

*PN* 614 Kipling #9  
Houston, TX 77006 *PN*

CITIZENSHIP: **RUSSIA**

POST OFFICE ADDRESS: **(Same as Residence)**

**Attorney Docket No.**  
**11321-P011 Series**

**FULL NAME OF TENTH INVENTOR: ANDREAS THESS**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** **Max-Planck-Institut Biochemie; Abteilung Molekulare,  
Strukturbioologie am Klopferspitz 189, D-82152 Martinsried, Germany**

**CITIZENSHIP: GERMANY**

**POST OFFICE ADDRESS: (Same as Residence)**

AUSTIN\_1\208783\1  
11321-P011WUC1 02/19/2003

Attorney Docket No.  
11321-P011 Series

**AMENDED DECLARATION AND POWER OF ATTORNEY FOR  
U.S. NATIONAL PHASE PATENT APPLICATION  
CLAIMING PRIORITY TO PCT APPLICATION  
(37 CFR 1.63)**

As below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

We believe that we are original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
NANOTUBE ASSEMBLIES**

the specification of which:

- is attached hereto; or
- was filed on November 30, 2001 as a Continuation Application Number 10/000,746 (Attorney Docket No. 11321-P011WUC1) of U.S. National Phase of 09/242,040 and PCT Application Number PCT/US97/13896 which published as WO 98/05920 on February 12, 1998, corresponding to United States Provisional Patent Application No. 60/023,732, filed August 8, 1996.

The following divisionals of United States Patent Application Serial No. 10/000,746 have been filed (the "Divisional Patent Applications"):

Appl Serial No.	Att. Docket No.	Continuity Type:	Filing Date:
10/028,231	11321-P011C1D1	Divisional	December 21, 2001
10/027,671	11321-P011C1D2	Divisional	December 21, 2001
10/038,204	11321-P011C1D3	Divisional	December 21, 2001
10/027,753	11321-P011C1D4	Divisional	December 21, 2001
10/036,684	11321-P011C1D5	Divisional	December 21, 2001
10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001

We further believe that we are original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the inventions of these Divisional Patent Applications.

**Attorney Docket No.**  
**11321-P011 Series**

Collectively, United States Patent Application Serial No. 10/000,746 and the Divisional Patent Applications are the "Applications".

We hereby state that we have reviewed and understand the contents of the above identified specifications for each of the Applications, including the claims. We hereby authorize our attorney, or his representative, to insert the Application Number, filing and amendment dates.

We acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR 1.56.

We hereby claim foreign priority benefits for each of the Applications under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				Yes	No
[ORIGINAL BASE/PRIORITY APPLICATION]			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

We hereby claim the benefit for each of the Applications under 35 U.S.C. 119(e) of any United States provisional application(s) listed below:

Application No.  
60/023,732

Official Filing Date  
August 8, 1996

We hereby claim the benefit for each of the Applications under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, We acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
PCT/US97/13896	8 August 1997	WO 98/05920

**Attorney Docket No.  
11321-P011 Series**

For each of the Divisional Patent Applications, we further claim the benefit under 35 U.S.C. 120 of United States Patent Application Serial No. 10/000,746, and, insofar as the subject matter of each of the claims of any of the Divisional Patent Application is not disclosed in the this prior United States application in the manner provided by the first paragraph of 35 U.S.C. 112, we acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

**POWER OF ATTORNEY:** As named inventors, we hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Ross Spencer Garsson, Reg. No. 38,150  
Hugh R. Kress, Reg. No. 36,574  
Robert C. Shaddox, Reg. No. 34,011  
Henry L. Ehrlich, Reg. No. 39,663  
Timothy M. Donoughue, Reg. No. 46,668  
Reece A. Scott, Reg. No. 41,297  
Edward T. Mickelson, Reg. No. 50,413

of the law firm of WINSTEAD SECHREST & MINICK P.C. Please direct all correspondence to:

Ross Spencer Garsson, Esq.  
WINSTEAD SECHREST & MINICK P.C.  
100 Congress Avenue, Suite 800  
Austin, Texas 78701 USA

and direct all telephone calls to Ross Spencer Garsson, Esq. at 512-370-2870 and all facsimile communications to 512-370-2850.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**FULL NAME OF FIRST INVENTOR:** **COLBERT, Daniel T.**

**INVENTOR'S SIGNATURE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**RESIDENCE:** **1911 Milford St., Houston, TX 77098 USA**

**CITIZENSHIP:** **United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**Attorney Docket No.  
11321-P011 Series**

**FULL NAME OF SECOND INVENTOR: DAI, Hongjie**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 365 Pescadero Terrace, Sunnyvale, CA 94086 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF THIRD INVENTOR: HAFNER, Jason H.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 373 Highland Ave. #203, Somerville, Massachusetts 02144 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FOURTH INVENTOR: RINZLER, Andrew G.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1713 SW 186<sup>th</sup> St., Newberry, Florida 32669 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

**FULL NAME OF FIFTH INVENTOR: SMALLEY, Richard E.**

**INVENTOR'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_**

**RESIDENCE: 1816 Bolsover St., Houston, TX 77081 USA**

**CITIZENSHIP: United States of America**

**POST OFFICE ADDRESS: (Same as Residence)**

Attorney Docket No.  
11321-P011 Series

FULL NAME OF TENTH INVENTOR: ANDREAS THESS

INVENTOR'S SIGNATURE: Andreas TR DATE: 02/26/2003

RESIDENCE: Max-Planck-Institut Biochemie; Abteilung Molekulare, Strukturbioologie am Kleeferspitz 189, D-82152 Martinsried, Germany \*

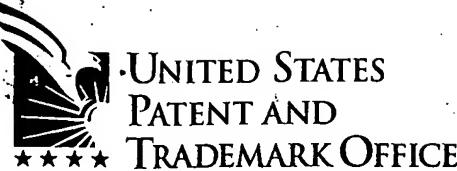
CITIZENSHIP: GERMANY

POST OFFICE ADDRESS: (Same as Residence)

AUSTIN\_1\208783\1  
11321-P011WUC1 02/19/2003

\*  
Andreas Thess' residence:

Andreas Kemmler-Weg 3 02/26/2003  
72127 Kusterdingen TR  
Germany



OCTOBER 24, 2003

PTAS

WINSTEAD SECHREST & MINICK, P.C.  
ROSS SPENCER GARSSON  
P.O. BOX 50784  
1201 MAIN STREET  
DALLAS, TX 75250-07984

Chief Financial Officer and Chief Administrative Officer  
Washington, DC 20231  
[www.uspto.gov](http://www.uspto.gov)



\*102452527A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/16/2003

REEL/FRAME: 014070/0372  
NUMBER OF PAGES: 42

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
LIU, JIE

DOC DATE: 02/21/2003

ASSIGNOR:  
SMITH, KENNETH A

DOC DATE: 04/04/2003

ASSIGNOR:  
GUO, TING

DOC DATE: 04/07/2003

ASSIGNOR:  
NIKOLAEV, PAVEL

DOC DATE: 02/21/2003

ASSIGNOR:  
THESS, ANDREAS

DOC DATE: 02/26/2003

ASSIGNOR:  
COLBERT, DANIEL T.

DOC DATE: 02/25/2003

ASSIGNOR:  
DAI, HONGJIE

DOC DATE: 02/27/2003

EXHIBIT

ASSIGNOR: HAFNER, JASON H.	DOC DATE: 03/06/2003
ASSIGNOR: RINZLER, ANDREW G.	DOC DATE: 04/16/2003
ASSIGNOR: SMALLEY, RICHARD E.	DOC DATE: 02/20/2003
ASSIGNEE: WILLIAM MARSH RICE UNIVERSITY 6100 MAIN STREET HOUSTON, TEXAS 77005	
SERIAL NUMBER: 10000746 PATENT NUMBER:	FILING DATE: 11/30/2001 ISSUE DATE:
SERIAL NUMBER: 10028231 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10027671 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10038204 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10027753 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10027670 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10027750 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10027726 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10027628 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10027668 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:
SERIAL NUMBER: 10027568 PATENT NUMBER:	FILING DATE: 12/21/2001 ISSUE DATE:

05-20-2003

Form PTO-1595  
(Rev. 10/02)

RI

OMB No. 0651-0027 (exp. 6/30/2005)

Tab settings ⇡ ⇢ ⇢

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

102452527

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Jie Liu; Kenneth A. Smith; Ting Guo; Pavel Nikolaev; Andreas Thess; Daniel T. Colbert; Hongjie Dai; Jason H. Hafner; Andrew G. Rinzler; and Richard E. Smalley

5.16.03

Additional name(s) of conveying party(ies) attached?  Yes  No

## 3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other	

Execution Date: 2/26/03; 2/25/03; 2/27/03; 3/6/03;  
4/16/03 and 2/20/03

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 10/000,746; 10/028,231  
10/027,671; 10/038,204; 10/027,753; 10/027,670;  
10/027,750; 10/027,726; 10/027,628 Additional numbers attached?  Yes  No

## 2. Name and address of receiving party(ies)

Name: William Marsh Rice University

Internal Address: 6100 Main Street

Street Address: 6100 Main Street

City: Houston State: TX Zip: 77005

Additional name(s) & address(es) attached?  Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Ross Spencer Garsson

Internal Address: Winstead Sechrest &amp; Minick P.C.

Street Address: P.O. Box 50784

1201 Main Street

City: Dallas State: TX Zip: 75250-0784

## 6. Total number of applications and patents involved: 11

7. Total fee (37 CFR 3.41).....\$ 440.00

 Enclosed Authorized to be charged to deposit account

## 8. Deposit account number:

23-2426 (11321-P011WUC1)

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Date 12/10/2003

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9. Signature UNTELLER 00000133 10000746

440.00 UP

Ross Spencer Garsson

Name of Person Signing

Signature

Total number of pages including cover sheet, attachments, and documents: 42

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents &amp; Trademarks, Box Assignments

Washington, D.C. 20231

**Continuation of Recordation Form Cover Sheet (Form PTO-1595)**

4. Application number(s) or patent number(s):

A. Patent Application No.(s):

10/027,668; and 10/027,568

AUSTIN\_1\214865\1  
11321-P011WUC1 05/09/2003

ASSIGNMENT

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
NANOTUBE ASSEMBLIES**

       for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

X for which reference a full description is here made in an application for the United States Patent Application Serial No. 10/000,746 (Attorney Docket No. 11321-P011WUC1), filed on November 30, 2001, which application claims priority as follows:

Application:	Continuity Type:	Parent Application:	Parent Filing Date:
10/000,746	Continuation	United States National Phase	September 13, 1999
09/242,040	United States National Phase	PCT Application	August 8, 1997
PCT/US97/13896	PCT Application	60/023,732	August 8, 1996

WHEREAS, the "Assignor", has invented other new and useful inventions that were disclosed in United States Patent Application Serial No. 10/000,746, for which the following divisionals of United States Patent Application Serial No. 10/000,746 have been filed:

Appl. Serial No.	Att. Docket No.	Continuity Type:	Filing Date:
10/028,231	11321-P011C1D1	Divisional	December 21, 2001
10/027,671	11321-P011C1D2	Divisional	December 21, 2001
10/038,204	11321-P011C1D3	Divisional	December 21, 2001
10/027,753	11321-P011C1D4	Divisional	December 21, 2001
10/036,684	11321-P011C1D5	Divisional	December 21, 2001
10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001

WHEREAS, in addition to the entering in the national phase in the United States, the International Patent Application Serial No. PCT/US97/13896 has entered into foreign national phases in the following countries:

Application Serial No.	Att. Docket No.	Country:
97938159.7	11321-P011WOEP	EC
508225/98	11321-P011WOJP	Japan

**WHEREAS**, collectively, all of the above-referenced patent applications are the "Applications."

**WHEREAS**, William Marsh Rice University, a University having a principal office and place of business at 6100 Main Street, Houston, Texas 77005, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said inventions, the Applications above identified, and in, to and under Letters Patent which may be obtained for said inventions, as hereinafter more fully set forth;

**NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN**, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the inventions and the Applications hereinabove identified, and all Letters Patent that may issue for the said inventions, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patent for the said inventions may issue.

**FURTHER**, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the inventions disclosed in the Applications, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree, for himself/herself and his/her legal representatives, that they will assist the Assignee in the prosecution of the Applications herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the inventions herein identified, as hereinbefore set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the inventions, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said inventions, or any application or Letters Patent herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and

further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said inventions, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said inventions in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

**IN TESTIMONY WHEREOF**, the Assignor has hereunto set his hands on the date indicated below.

**DANIEL T. COLBERT**  
a resident of Houston, Texas

Dated: 2/25/03



**HONGJIE DAI**  
a resident of Sunnyvale, California

Dated: \_\_\_\_\_

**JASON H. HAFNER**  
a resident of Somerville, Massachusetts

Dated: \_\_\_\_\_



ATTORNEY DOCKET I.O.  
11321-P011 Series

PATENT

**ANDREW G. RINZLER**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

**RICHARD E. SMALLEY**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

\_\_\_\_\_

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
NANOTUBE ASSEMBLIES**

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

for which reference a full description is here made in an application for the United States Patent Application Serial No. 10/000,746 (Attorney Docket No. 11321-P011WUC1), filed on November 30, 2001, which application claims priority as follows:

Application:	Continuity Type:	Parent Application:	Parent Filing Date:
10/000,746	Continuation	United States National Phase	September 13, 1999
09/242,040	United States National Phase	PCT Application	August 8, 1997
PCT/US97/13896	PCT Application	60/023,732	August 8, 1996

**WHEREAS**, the "Assignor", has invented other new and useful inventions that were disclosed in United States Patent Application Serial No. 10/000,746, for which the following divisionals of United States Patent Application Serial No. 10/000,746 have been filed:

Appl. Serial No.	Att. Docket No.	Continuity Type:	Filing Date:
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Application Serial No.	Att. Docket No.	Country:
97938159.7	11321-P011WOEP	EC
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**WHEREAS**, William Marsh Rice University, a University having a principal office and place of business at 6100 Main Street, Houston, Texas 77005, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said inventions, the Applications above identified, and in, to and under Letters Patent which may be obtained for said inventions, as hereinafter more fully set forth;

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**DANIEL T. COLBERT**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

**HONGJIE DAI**  
a resident of Sunnyvale, California

Dated: 2/27/03

Hongjie Dai

**JASON H. HAFNER**  
a resident of Somerville, Massachusetts

Dated: \_\_\_\_\_

ATTORNEY DOCKET NO.  
11321-P011 Series

PATENT

ANDREW G. RINZLER  
a resident of Houston, Texas

Dated: \_\_\_\_\_

RICHARD E. SMALLEY  
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**DANIEL T. COLBERT**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

**HONGJIE DAI**  
a resident of Sunnyvale, California

Dated: \_\_\_\_\_

**JASON H. HAFNER**  
a resident of ~~Somerville, Massachusetts~~  
Houston, Texas

Dated: 03/06/03



ATTORNEY DOCKET NO.  
11321-P011 Series

PATENT

**ANDREW G. RINZLER**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

**RICHARD E. SMALLEY**  
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Dated: \_\_\_\_\_

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**DANIEL T. COLBERT**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

**HONGJIE DAI**  
a resident of Sunnyvale, California

Dated: \_\_\_\_\_

**JASON H. HAFNER**  
a resident of Somerville, Massachusetts

Dated: \_\_\_\_\_

ATTORNEY DOCKET NO.  
11321-P011 Series

PATENT

ANDREW G. RINZLER

a resident of Houston, Texas NEWBERRY, FL AGR.  
4/16/03



RICHARD E. SMALLEY

a resident of Houston, Texas

Dated: 4/16/03

\_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

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Dated: \_\_\_\_\_

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a resident of Somerville, Massachusetts

Dated: \_\_\_\_\_

ATTORNEY DOCKET .J.  
11321-P011 Series

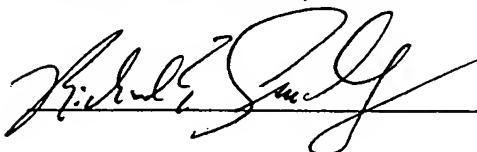
PATENT

ANDREW G. RINZLER  
a resident of Houston, Texas

Dated: \_\_\_\_\_

Dated: 2/20/03

RICHARD E. SMALLEY  
a resident of Houston, Texas



AUSTIN\_1\208780\1  
11321-P011WUC1 02/19/2003

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97938159.7	11321-P011WOEP	EC
508225/98	11321-P011WOJP	Japan

**WHEREAS**, collectively, all of the above-referenced patent applications are the "Applications."

**WHEREAS**, **William Marsh Rice University**, a University having a principal office and place of business at 6100 Main Street, Houston, Texas 77005, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said inventions, the Applications above identified, and in, to and under Letters Patent which may be obtained for said inventions, as hereinafter more fully set forth;

**NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN**, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the inventions and the Applications hereinabove identified, and all Letters Patent that may issue for the said inventions, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patent for the said inventions may issue.

**FURTHER**, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the inventions disclosed in the Applications, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree, for himself/herself and his/her legal representatives, that they will assist the Assignee in the prosecution of the Applications herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the inventions herein identified, as hereinbefore set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the inventions, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said inventions, or any application or Letters Patent herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and

further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said inventions, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said inventions in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

**IN TESTIMONY WHEREOF**, the Assignor has hereunto set his hands on the date indicated below.

Dated: 02/21/03

*02/21/03*  
**JIE LIU**  
a resident of ~~Houston, Texas~~ Chapel Hill, North Carolina



Dated: \_\_\_\_\_

**KENNETH A. SMITH**  
a resident of Katy, Texas

Dated: \_\_\_\_\_

**TING GUO**  
a resident of Davis, California

Dated: \_\_\_\_\_

**PAVEL NIKOLAEV**  
a resident of Houston, Texas

ATTORNEY DOCKET NO.  
11321-P011 Series

PATENT

ANDREAS THESS  
a resident of Martinsried, Germany

Dated: \_\_\_\_\_

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
NANOTUBE ASSEMBLIES**

       for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

X for which reference a full description is here made in an application for the United States Patent Application Serial No. 10/000,746 (Attorney Docket No. 11321-P011WUC1), filed on November 30, 2001, which application claims priority as follows:

Application:	Continuity Type:	Parent Application:	Parent Filing Date:
10/000,746	Continuation	United States National Phase	September 13, 1999
09/242,040	United States National Phase	PCT Application	August 8, 1997
PCT/US97/13896	PCT Application	60/023,732	August 8, 1996

**WHEREAS**, the "Assignor", has invented other new and useful inventions that were disclosed in United States Patent Application Serial No. 10/000,746, for which the following divisionals of United States Patent Application Serial No. 10/000,746 have been filed:

AppL Serial No.	Att. Docket No.	Continuity Type:	Filing Date:
10/028,231	11321-P011C1D1	Divisional	December 21, 2001
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10/027,753	11321-P011C1D4	Divisional	December 21, 2001
10/036,684	11321-P011C1D5	Divisional	December 21, 2001
10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
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**IN TESTIMONY WHEREOF**, the Assignor has hereunto set his hands on the date indicated below.

**JIE LIU**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

**KENNETH A. SMITH**  
a resident of Katy, Texas

Dated: 4.4.03

**TING GUO**  
a resident of Davis, California

Dated: \_\_\_\_\_

**PAVEL NIKOLAEV**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

ATTORNEY DOCKET N.O.  
11321-P011 Series

PATENT

ANDREAS THESS  
a resident of Martinsried, Germany

Dated: \_\_\_\_\_

AUSTIN\_1\211971\1  
11321-P011WUC1 04/04/2003

ASSIGNMENT

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
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NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the inventions and the Applications hereinabove identified, and all Letters Patent that may issue for the said inventions, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patent for the said inventions may issue.

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**JIE LIU**  
a resident of Houston, Texas

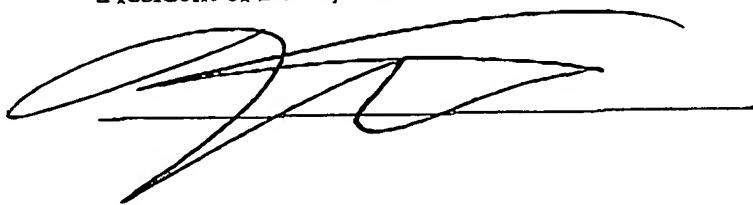
Dated: \_\_\_\_\_

**KENNETH A. SMITH**  
a resident of Katy, Texas

Dated: \_\_\_\_\_

**TING GUO**  
a resident of Davis, California

Dated: 4/7/03



**PAVEL NIKOLAEV**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

ATTORNEY DOCKET NO.  
11321-P011 Series

PATENT

ANDREAS THESS  
a resident of Martinsried, Germany

Dated: \_\_\_\_\_

AUSTIN\_1\208780\1  
11321-P011WUC1 02/19/2003

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**JIE LIU**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

**KENNETH A. SMITH**  
a resident of Katy, Texas

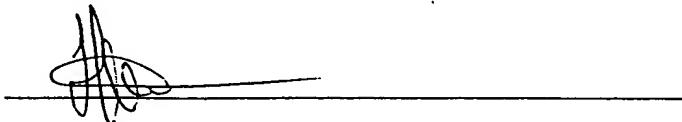
Dated: \_\_\_\_\_

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a resident of Davis, California

Dated: \_\_\_\_\_

**PAVEL NIKOLAEV**  
a resident of Houston, Texas

Dated: 2.21.03



ANDREAS THESS  
a resident of Martinsried, Germany

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AUSTIN 1\208780\1  
11321-P011WUC1 02/19/2003

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**JIE LIU**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

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Dated: \_\_\_\_\_

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**PAVEL NIKOLAEV**  
a resident of Houston, Texas

Dated: \_\_\_\_\_

ATTORNEY DOCKET NO.  
11321-P011 Series

PATENT

ANDREAS THESS

a resident of ~~Martinsried~~, Germany

Kusterdingen

02/26/2003

ATB

Dated: 02/26/2003

Andreas ATB

AUSTIN\_102087801  
11321-P011WUC1 02/19/2003

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

# TRANSMITTAL FORM

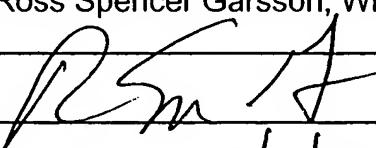
(to be used for all correspondence after initial filing)

		Application Number	10/000,746
		Filing Date	11/30/2001
		First Named Inventor	Daniel T. Colbert
		Group Art Unit	2881
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	44	Attorney Docket Number	11321-P011WUC1

## ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form	<input checked="" type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	Recordation Cover Sheet; Check No.
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	002720 (\$440.00); Postal
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	Card Receipt Card
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

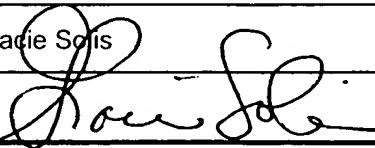
## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Ross Spencer Garsson, Winstead Sechrest & Minick P.C.	
Signature		
Date	05/12/03	

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date:

05/12/2003

Typed or printed name	Gracie Solis 		
Signature		Date	05/12/2003

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# FEE TRANSMITTAL

## for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ 440.00)
**Complete if Known**

Application Number	10/000,746
Filing Date	November 30, 2001
First Named Inventor	Daniel T. Colbert
Examiner Name	Not Yet Assigned
Art Unit	2881
Attorney Docket No.	11321-P011WUC1

**METHOD OF PAYMENT (check all that apply)**
 Check  Credit card  Money Order  Other  None

 Deposit Account:

Deposit Account Number	23-2426
Deposit Account Name	Winstead Sechrest & Minick P.C.

The Commissioner is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments  
 Charge any additional fee(s) during the pendency of this application  
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee			
1002 330	2002 165	Design filing fee			
1003 520	2003 260	Plant filing fee			
1004 750	2004 375	Reissue filing fee			
1005 160	2005 80	Provisional filing fee			
<b>SUBTOTAL (1)</b>		(\$ 0.00)			

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20** =	X	=
			-3** =	X	=

Large Entity	Small Entity	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
<b>SUBTOTAL (2)</b>		(\$ 0.00)

\*\*or number previously paid, if greater; For Reissues, see above

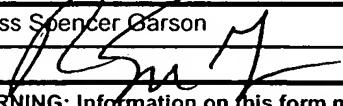
**3. ADDITIONAL FEES**

Large Entity	Small Entity	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	440.00
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	
Other fee (specify) _____			

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)** (\$ 440.00)

(Complete if applicable)

Name (Print/Type)	Ross Spencer Garson	Registration No. (Attorney/Agent)	38,150	Telephone 512/370-2870
Signature			Date	5/12/03

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**ASSIGNEE CONSENT FOR CORRECTION OF INVENTORS**

Assignee hereby consents to the Correction of Inventorship for the applications related to the invention(s) entitled:

**MACROSCOPICALLY MANIPULATE NANOSCALE DEVICES MADE FROM  
NANOTUBE ASSEMBLIES**

for which the following applications have been filed:

Appl. Serial No.	Att. Docket No.	Type/Continuity Type:	Filing Date:
60/023,732	None	Provisional	August 8, 1996
PCT/US97/13896	11321-P011WO	International	August 8, 1997
09/242,040	11321-P011WOUS	National Phase	September 13, 1999
10/000,746	11321-P011WUC1	Continuation	November 30, 2001
10/028,231	11321-P011C1D1	Divisional	December 21, 2001
10/027,671	11321-P011C1D2	Divisional	December 21, 2001
10/038,204	11321-P011C1D3	Divisional	December 21, 2001
10/027,753	11321-P011C1D4	Divisional	December 21, 2001
10/036,684	11321-P011C1D5	Divisional	December 21, 2001
10/027,670	11321-P011C1D6	Divisional	December 21, 2001
10/027,750	11321-P011C1D7	Divisional	December 21, 2001
10/027,726	11321-P011C1D8	Divisional	December 21, 2001
10/027,628	11321-P011C1D9	Divisional	December 21, 2001
10/027,668	11321-P011CD10	Divisional	December 21, 2001
10/027,568	11321-P011CD11	Divisional	December 21, 2001
10/670,955	11321-P011CD2D1	Divisional of 10/027,671	September 25, 2003

The correct Inventors of the invention relating to these applications are: Daniel T. Colbert; Hongjie Dai; Jason H. Hafner; Andrew G. Rinzler; Richard E. Smalley; Jie Liu; Kenneth A. Smith; Ting Guo; Pavel Nikolaev and Andreas Thess.

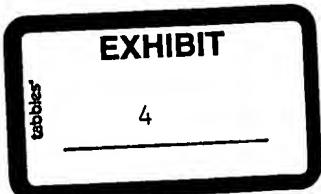
WILLIAM MARSH RICE UNIVERSITY

Date: 6/22/1, 2004

By:

  
Peter L. Schuerman  
Acting Director, Office of Technology Transfer

DALLAS\_1\3913504\1  
11321-P011WOUS 06/15/2004



**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: William March Rice UniversityApplication No./Patent No.: 10/038,204 Filed/Issue Date: December 21, 2001Entitled: Method for Forming An Array of Single-Wall Carbon Nanotubes and Compositions ThereofWilliam March Rice University, a University

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

A.  An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 014070, Frame 0372, or for which a copy thereof is attached.

OR

B.  A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
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 Additional documents in the chain of title are listed on a supplemental sheet. Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

6/22/04

Date

Peter L. Schuerman

Typed or printed name



Signature

Acting Director, Office of Technology Transfer

Title

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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	10/038,204
Filing Date	December 21, 2001
First Named Inventor	Daniel T. Colbert
Title	Method for Forming an Array . . .
Art Unit	1754
Examiner Name	Peter J. Lish
Attorney Docket Number	11321-P011C1D3

I hereby appoint:

Practitioners at Customer Number:

OR

Practitioner(s) named below:

Name	Registration Number
Ross Spencer Garsson	Reg. No. 38,150
Robert C. Shaddox	Reg. No. 34,011
Henry L. Ehrlich	Reg. No. 39,011
Edward T. Mickelson	Reg. No. 50,413

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

The above-mentioned Customer Number:

OR

The address associated with Customer Number:

OR

Firm or Individual Name: Winstead Sechrest &amp; Minick P.C.

Address	P.O. Box 50784		
Address			
City	Dallas	State	Texas
Country	US	Zip	75201
Telephone	512.370.2870	Fax	512.370.2850

I am the:

Applicant/Inventor.

Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

**SIGNATURE of Applicant or Assignee of Record**

Name	Peter L. Schuerman, Acting Director, Office of Technology Transfer, William Marsh Rice University		
Signature			
Date	6/22/04	Telephone	(713) 348-6231

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of 16 forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EXHIBIT

## Application Data Sheet

### **Application Information**

Application number:: 10/038,204  
Filing Date:: 12/21/01  
Application Type:: Regular  
Subject Matter:: Utility  
Suggested Classification::  
Suggested Group Art Unit:: 1754  
CD-ROM or CD-R?:: None  
Number of CD disks::  
Number of copies of CDs::  
Sequence Submission?:: None  
Computer Readable Form (CRF)?:: No  
Number of copies of CRF::  
Title:: METHOD FOR FORMING AN ARRAY OF  
SINGLE-WALL CARBON NANOTUBES AND  
COMPOSITIONS THEREOF  
Attorney Docket Number:: 11321-P011C1D3  
Request for Early Publication?:: No  
Request for Non-Publication?:: No  
Suggested Drawing Figure:: 1  
Total Drawing Sheets:: 14  
Small Entity?:: Yes  
Petition included?:: No  
Petition Type::  
Licensed US Govt. Agency::  
Contract or Grant Numbers::  
Secrecy Order in Parent Appl.?:: No

**EXHIBIT**

tabbies®

7

**Applicant Information**

Applicant Authority type:: Inventor  
Primary Citizenship Country:: US  
Status:: Full Capacity  
Given Name:: Daniel  
Middle Name:: T.  
Family Name:: Colbert  
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State or Province of Residence:: TX  
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State or Province of mailing address:: TX  
Country of mailing address:: US  
Postal or Zip Code of mailing address:: 77098  
\*\*\*\*\*

Applicant Authority type:: Inventor  
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Middle Name::  
Family Name:: Dai  
Name Suffix::  
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Country of mailing address:: US  
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Applicant Authority type:: Inventor  
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Country of Residence:: US  
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State or Province of mailing address:: TX  
Country of mailing address:: US  
Postal or Zip Code of mailing address:: 77098

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Status:: Full Capacity  
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Middle Name:: E.  
Family Name:: Smalley  
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Country of Residence:: US  
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City of mailing address:: Houston  
State or Province of mailing address:: TX  
Country of mailing address:: US  
Postal or Zip Code of mailing address:: 77005

\*\*\*\*\*

Applicant Authority type:: Inventor  
Primary Citizenship Country:: US  
Status:: Full Capacity  
Given Name:: Jie  
Middle Name::  
Family Name:: Liu  
Name Suffix::  
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State or Province of Residence:: NC  
Country of Residence:: US  
Street of mailing address:: 502 Westminster Drive  
City of mailing address:: Chapel Hill  
State or Province of mailing address:: NC  
Country of mailing address:: US

Postal or Zip Code of mailing address:: 27514

\*\*\*\*\*

Applicant Authority type:: Inventor

Primary Citizenship Country:: US

Status:: Full Capacity

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Middle Name:: A.

Family Name:: Smith

Name Suffix::

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State or Province of Residence:: TX

Country of Residence:: US

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City of mailing address:: Katy

State or Province of mailing address:: TX

Country of mailing address:: US

Postal or Zip Code of mailing address:: 77450

\*\*\*\*\*

Applicant Authority type:: Inventor

Primary Citizenship Country:: CN

Status:: Full Capacity

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Middle Name::

Family Name:: Guo

Name Suffix::

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State or Province of Residence:: CA

Country of Residence:: US

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City of mailing address:: Davis

State or Province of mailing address:: CA

Country of mailing address:: US

Postal or Zip Code of mailing address:: 95616

\*\*\*\*\*

Applicant Authority type:: Inventor,

Primary Citizenship Country:: US

Status:: Full Capacity

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Middle Name::

Family Name:: Nikolaev

Name Suffix::

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Country of Residence:: US

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City of mailing address:: Houston

State or Province of mailing address:: TX

Country of mailing address:: US

Postal or Zip Code of mailing address:: 77006

\*\*\*\*\*

Applicant Authority type:: Inventor

Primary Citizenship Country:: DE

Status:: Full Capacity

Given Name:: Andreas

Middle Name::

Family Name:: Thess

Name Suffix::

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State or Province of Residence::

Country of Residence:: DE

Street of mailing address:: Andreas Kemmler Weg 3

City of mailing address:: Kusterdingen

State or Province of mailing address::  
Country of mailing address:: DE  
Postal or Zip Code of mailing address:: 72127

### **Correspondence Information**

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Street of mailing address:: P.O. Box 50784  
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State or Province of mailing address:: TX  
Country of mailing address:: US  
Postal or Zip Code of mailing address:: 75201  
Phone number:: 512.370.2870  
Fax number:: 214.745.5390  
E-Mail address:: rgarsson@winstead.com

**Representative Designation::      Registration Number::      Representative Name::**

Primary	38,150	Ross S. Garsson
Associate	36,574	Hugh R. Kress
Associate	39,663	Henry L. Ehrlich
Associate	50,413	Edward T. Mickelson

### **Domestic Priority Information**

Application::	Continuity Type::	Parent Application::	Parent Filing Date::
This Application	Division of	10/000,746	10/31/2001
Parent	Continuation of	09/242,040	09/13/1999
Grandparent	US National Stage	PCT/US97/13896	08/08/1997

### **Foreign Priority Information**

Country::	Application number::	Filing Date::	Priority Claimed::

### Assignee Information

Assignee name:: William Marsh Rice University  
 Street of mailing address:: 6100 Main Street  
 City of mailing address:: Houston  
 State or Province of mailing address:: TX  
 Country of mailing address:: US  
 Postal or Zip Code of mailing address:: 77005

Dallas\_1 4039347v.1

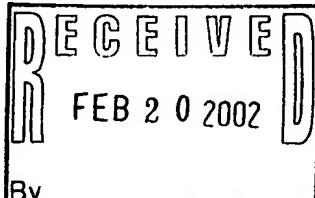


# UNITED STATES PATENT AND TRADEMARK OFFICE

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 UNITED STATES PATENT AND TRADEMARK OFFICE  
 WASHINGTON, D.C. 20231  
 www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/038,204	12/21/2001	2881	871	11321- P011C1D3	14	57	7

Hugh R. Kress  
 2400 Bank One Center  
 910 Travis Street  
 Houston, TX 77002



CONFIRMATION NO. 1758  
 FILING RECEIPT



\*OC000000007463243\*

DOCKETED  
 (AMA) 2/20/02

Date Mailed: 02/12/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

### Applicant(s)

Daniel T. Colbert, Houston, TX;  
 Hongjie Dai, Sunnyvale, CA;  
 Jason H. Hafner, Somerville, MA;  
 Andrew G. Rinzler, Newberry, FL;  
 Richard E. Smalley, Houston, TX;

Jie Liu, Chapel Hill, NC  
 Kenneth A. Smith, Katy, TX  
 Ting Guo, Davis, CA  
 Pavel Nikolaev, Houston, TX  
 Andreas, Thess, Frusterdingen, DE

### Assignment For Published Patent Application

William Marsh Rice University, Houston, TX;

### Domestic Priority data as claimed by applicant

THIS APPLICATION IS A DIV OF 10/000,746 11/30/2001  
 WHICH IS A CON OF 09/242,040 09/13/1999 ABN  
 WHICH IS A 371 OF PCT/US97/13896 08/08/1997  
 WHICH CLAIMS BENEFIT OF 60/023,732 08/08/1996

### Foreign Applications

If Required, Foreign Filing License Granted 02/12/2002

Projected Publication Date: 05/23/2002

Non-Publication Request: No

Early Publication Request: No

**\*\* SMALL ENTITY \*\***

**Title**

Method for forming an array of single-wall carbon nanotubes and compositions thereof

**Preliminary Class**

250

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Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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